Examine's 6 (

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TI High-strength **steel** for rods having high resistance to delayed fracture

IN Yamazaki, Shingo; Takahashi, Toshihiko; Tarui, Toshizo

PA Shinnippon Seitetsu Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

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The low-alloy steel for high-strength rods contains C 0.15-0.50, si 0.1-2.0, Mn 0.05-2.0, P .ltoreq.0.015, S .ltoreq.0.02, and Al 0.005-0.1%, and is heat treated for tempered martensite microstructure with tensile strength .gtoreq.145 kg/mm2, prior austenite grain aspect ratio .gtoreq.2, and grain boundary

carbide size .ltoreq.0.2 .mu.m. The steel rods are manufd. by hot rolling at 700-850.degree. and draft .gtoreq.30%, quenched to the martensitic microstructure, reheated at .gtoreq.50.degree./s, held at 350-500.degree. for 10-50 s, and tempered.

E012 Am Carbid size

0.15-0.5 C 0.1-2. Si 0.05-2 Mn 60.015 P 60.02 S Ch Ni Cr